## Attachment "B" SPECIFICATIONS – Medium Duty Rescue Unit.

SPECIFICATION	TO SPEC	NOT TO	DEVIATION
CHASSIS, BRAKES & CAB:	10 01 20	0.20	DEVIAIION
Minimum 375 horsepower engine.			
Expected minimum GVWR rating 16.500Kg			
The chassis shall be of steel construction only,			
and the specifics be provided in the proposal as			
per 1-6-2. – (A full description including grade,			
thickness, and tensile strength of the proposed			
material for body construction must be included			
with the proposal.)			
The chassis shall be a 4x4 style chassis. The Chassis			
chosen for this truck shall correlate with the			
intended purpose of the truck and be the			
recommended chassis for the design of build.			
The Chassis shall have ABS or Antilock Brake			
System.			
transfer case.			
The Chassis shall be equipped with front and			
rear tow hooks.			
Auxiliary braking system functions are required			
to be above 36,000 lb (16,000 kg) GVWR as per			
NFPA 1901.			
An intake for supplied air will be plumbed in			
close proximity to the driver's side door to ensure			
operational air is maintained while the			
Stopping distance of the intended apparatus			
shall be provided.			
CAB:			
A label indicating the height, length and GVWR			
of the vehicle is visible to the driver.			
The cab shall be fully enclosed and provide			
adequate space to accommodate a minimum			
of 2 personnel. (One driver operator, one			
deguate bagd inges and lag room for			
firefighters in excess of 6 feet in height			
The officer's chair (front passenger) will			
incorporate air ride suspension.			
All seats will require extra-long seat belts.			1
All apparatus digital readouts and displays shall			
be in easy view of the apparatus operator.			

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Grab handles shall be installed for use on every			
door to ensure three-point contact while			
entering and exiting the apparatus.			
In-cab space shall be utilized to its full potential -			
storage compartments shall be implemented			
wherever possible.			
The inside of the cab shall be of the open			
design and insulated against heat and sound			
Cab shall include backup camera visible to the			
driver.			
Driver and passenger mirrors shall be controlled			
electrically and be heated.			
A foot pedal control for the apparatus all hom			
officers feet legations			
An alarm shall be installed to alort the			
apparatus driver when a seatbelt has not been			
used by an occupant			
A "SEAT BELTS RECULIRED" sign shall be installed in			
the cab and visible from every seating position			
BODY.			
The apparatus body shall be built of aluminum			
and fibrealass construction using a minimum of			
125-inch aluminum body panels and metals			
used in the construction of the body to prevent			
corrosion. The supplier must outline and submit			
the method of construction and material			
properties for approval by the Purchaser.			
The body style shall be a partial walk-in medium			
rescue unit.			
Entry to the walk-in will be on the passenger side			
by means of double doors.			
The walk-in shall include a window on the			
driver's side of the apparatus, that can be used			
as a means of egress.			
An automatic drop-down step shall be			
incorporated beneath the walk-in doors to			
tacilitate ease of entry.			
Walk-in shall contain bench seat with built in			
storage underneath and seat belts for a			
minimum of 3 tiretignters.			

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The exterior of the walk-in shall have an external			
speaker for the base station radio, with an			
on/off control being at the command centre			
desk.			
The command centre desk shall have access to			
110VAC electrical outlets. Minimum of two.			
Space for future fridge and cabinet shall be			
incorporated in the design of the command			
centre.			
Walk-in shall incorporate intercom system to			
communicate with driver.			
Walk-in shall have own HVAC controls.			
The supplier will provide the Purchaser with the			
most optimized compartment orientation to			
allow for maximum compartment storage			
possible. Shelving and storage orientation may			
be subject to change and review prior to the			
proposal being awarded.			
st the heady. But rail assemblies shall be argued			
of the body. Rub fall assembles shall be spaced			
material. Bub rails are to be removable to allow			
for replacement in case of damage			
IMPORTANT NOTICE: All horizontal surfaces			
covered with aluminum tread plate shall be the			
NFPA-compliant embossed nonslip type. No			
exceptions.			
A structural analysis of the body design shall			
have been performed and evidence of testing			
techniques and results made available upon			
request.			
Storage for spare SCBA bottles will be			
incorporated into rear wheel well storage areas			
with the forth holding a pullout absorb-all			
storage dispenser. SCBA bottle storage shall be			
padded at the rear and entry of each holster,			
and provide leashing or another restraining			
device to ensure SCBA bottles remain stationary			
while the apparatus is in motion. Alternate			
means of SCBA and absorb-all storage will be			
entertained.			
Ine body shall have a minimum 10-year			
structural warranty.			

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Options for equipment electrical supply in			
capiners which are real airectly from the fruck of			
supplier based upon decumented examples of			
provious client success			
The rough wiring for an electrical winch shall be			
prendred in the front humber to allow for a			
minimum rating of 9500lbs.			
Top of the apparatus shall incorporate storage			
compartments.			
Top of the apparatus shall be accessible by			
means of a fold away ladder at the rear of the			
apparatus.			
The tires for the truck must be suitable for off-			
road operations.			
In compliance with NFPA 1901 Annex B, 15.7.5,			
warning signs prohibiting riding on outside of			
apparatus shall be present.			
Hand rails on apparatus shall comply with NFPA			
1901 Annex B 15.8.1, 3, and 4.			
Reflective striping on the apparatus shall			
comply at minimum with NFPA Annex B in			
regards to 4 inch in length, and applicable			
The rear of the vehicle shall have alternating			
vellow and red stripes in a chevron pattern			
which will be 6 inches and cover at least 50% of			
the rear vertical surface.			
The supplier shall accommodate for a third			
party to install a base station radio on the cab			
and walk-in. The installation of these items shall			
not have any effect on the warranty of the			
apparatus.			
All equipment required to be used during a			
response is to have bracketing or fastening in			
compartments. Creativity in storage techniques			
and concepts to maximize storage space is			
encouraged by the supplier. Preference may be			
given to suppliers who will provide			
complimentary truck outfitting in conjunction			
torage achieve of the gap grature			
sorage cabiner of the apparatus.			

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Apparatus shall be capable of storing:			
Struts			
Cribbing			
Spine boards			
Medical equipment			
• Fuel			
• Saws			
Various hand tools			
Various power tools			
AIR INTAKE, SUPPLIED AIR, EXHAUST:			
A dry-type air cleaner, suitable for the engine			
being proposed, shall be installed and mounted			
as to provide easy access for serviceability.			
A mechanical air restriction indicator will be			
mounted where visible from the in-cab service			
door. It shall also trigger a warning light on the			
dash to indicate a clogged air filter.			
The system designed to prevent water and			
embers from reaching the air filter meeting			
NFPA standards shall be provided.			
Moisture spigots for both the primary and			
secondary air tanks shall be easily accessible to			
allow for any moisture to be drained from the air			
fanks.			-
An air aryer which meets the trucks			
specifications shall be present, with supporting			
accumentation included in the proposal.			-
A supplied air intake to ensure that both primary			
and secondary fanks will remain at full air while			
the apparatus is not in use shall be located in			
close proximity to the driver/operator door.			
while it is preferred that the supplied air intake			
be auto eject, reasonable substitutions may be			
Enternainea with the Initial proposal.			
Exhaust shall be vertical and incorporated into			
The build to ensure that heat and exhaust are			
experied dwdy from the apparatos and its			
Oucupulits.			
where heat may impede on the ground			
percented may impede on me ground,			
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ELECTRICAL LIGHTING & AUDIBLE			
protoct performed from electrical sheet			
protect personnel from electrical shock.			

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The alternator on the truck shall exceed the		0.50	DEVIANON
maximum electrical requirements for all			
electronic components on the apparatus. All			
compliance documentation supporting this shall			
be provided.			
A load master device shall be implemented to			
assist the apparatus in prioritizing primary and			
secondary electrical functions. Documentation			
detailing this prioritization shall be provided.			
Minimum of 3500W inverter shall be used on the			
truck.			
All outlets on the apparatus shall function while			
attached to shore-line or running off the inverter.			
100' extension cord reel shall be incorporated in			
the rear storage of the apparatus.			
All controls, switches, instructions, gauges and			
instruments needed for operation shall be			
illuminated with LED lighting.			
All warning and responding lights shall comply			
with the NFPA 1901.			
A rear-mounted traffic directional lighting			
device shall be implemented with controls			
being in close proximity to the apparatus			
operator.			
All compartments shall have LED illuminated			
lighting.			
The top of walk-in shall incorporate LED light			
tower with wired controller.			
The sides and rear of the apparatus shall be			
IIIUMINATEA for working.			
Ground lighting shall be LED and implemented			
In all dreas where persons will be stepping of			
Circund lighting will illuminate automatically with			
cab doors becoming diar			
A flashing red light in the cab compartment will			
flash in conjunction with an audible alarm if the			
parking brake is released while:			
- a seat belt is not fastened in an occupied			
seat			
- a passenger door is open			
- a compartment is open			
- a permanently attached device. liaht or			
ladder is not stowed			

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Any in cab visual warnings shall be			
accompanied by audible warnings in the cab.			
An Emergency Siren/Public Address system shall			
be installed which is certified to SAE J1849 and			
Alberta Transportation and NFPA 1901			
standards. The siren shall have three variations			
which incorporate at a minimum both "wail"			
and "hi-lo" with variable gain.			
An audible emergency warning air horn shall be			
installed with controls being a pedal at both the			
foot of the driver and the front passenger			
"officer" seats. This is not to be confused with a			
conventional vehicle horn, which shall also be			
present, yet operated separately.			
All Audible alarm controls shall be in close			
proximity to the operator/driver.			
DRIVE UNIT:			
The truck transmission shall be a 4x4 wheel drive			
hi range - low range 6 speed heavy duty off-			
road Allison transmission which shall provide			
sufficient torque and power transfer to allow the			
engine to run efficiently and effectively while			
the truck is being used in off-road operations.			
Supporting documentation outlining			
specifications shall be provided with the			
proposal.			
COOLING/HEATING SYSTEM:			
The cooling system shall have sufficient			
capacity to meet extended periods of full load			
operation in local ambient temperatures (from -			
40C to +35C) and maintain the engine at a			
temperature not to exceed maximum or			
minimum operating temperature as			
recommended by the engine manufacturer.			
High temperature and low coolant alarms shall			
be provided in the cab as per NFPA standards.			
The radiator shall meet or exceed the cooling			
requirements specified by the engine			
manufacturer under all operating conditions.			